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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: AGENTS FOR IMAGING AND DIAGNOSTIC METHODS USING THEM

(57) Abstract: The present invention provides novel compounds that bind selectively to cells undergoing perturbations and alter-  
ations of the normal organization of their plasma membrane, while binding to a lesser degree to cells having membranes of normal  
organization, and their uses as diagnostic probes. Said compounds and methods used therein may be useful in medical practice, for  
applications such as diagnosis of disease and monitoring of response to therapy.

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## INTERNATIONAL SEARCH REPORT

 Internatio application No  
 PCT/IL 03/00463

 A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 C07C311/42 C07C323/58 C07C323/25 A61K49/06 A61K51/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C07C A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 451 824 A (NIHON MEDI-PHYSICS CO LTD) 16 October 1991 (1991-10-16)  the whole document	1-3,6,7, 11, 22-25, 29,30, 32,33, 43-48, 54,58, 65,66, 69,70,79
A	J. MED. CHEM.: E. CHIOTELLIS ET AL, vol. 25, no. 11, 1982, pages 1370-1374, XP002260808 tables I-II, compound 4  ----- -/--	1-3,7-9, 11,21, 24,25, 29,30

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

14 November 2003

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03/12/2003

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## INTERNATIONAL SEARCH REPORT

Internatio plication No  
PCT/IL 02/00463

## C.(Continuation) DOCUMENTS CONSIDERED RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PROC. NATL. ACAD. SCI. USA, vol. 75, no. 8, 1978, pages 3683-3687, XP0008017965 page 3683, column 2, line 25 - page 3684, column 1, line 53 -----	1, 26, 29, 31
P, X	WO 02 46147 A (NST NEUROSURVIVAL TECHNOLOGIES LTD) 13 June 2002 (2002-06-13)  claims 1-7, 9-11, 13-17, 19-27, 29-37, 41-57 -----	1-3, 6-9, 11, 22-26, 29, 30, 32-36, 43-46, 48-61, 64-83
P, X	WO 02 074346 A (NST NEUROSURVIVAL LTD) 26 September 2002 (2002-09-26)  page 7, line 25 - page 8, line 7; claims 1-11, 34, 37-41, 43-52, 63, 66, 69, 72-76 -----	1-4, 6-9, 11, 22-26, 29, 30, 32-36, 43-46, 48-55, 64-77

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IL 03/00463

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 65-83 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 5  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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Continuation of Box I.2

Claims Nos.: 5

Present claim 1 relates to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claim so lacks support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claim which appear to be supported and disclosed, namely those parts relating to the compounds of formula I, wherein G and Z are as defined in claim 1 and the moiety D-Y- is an amino-substituted naphthalene group as illustrated and defined in claim 11.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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